BRUHAT BANGALORE MAHANAGARA PALIKE

e of work :- Providing Repairs Maintenance infrastructures Upgradetion Construction to BBMP School College Building In Ward No. 17.

Estimate Cost Rs. 40.00 Lakhs

Description of work	No	Dimensions L	B	D	Quantity	Rate	Unit	Amount
RB 2-1.1 : Earth work in surface excavation in ordinary soil for levelling and vering the ground manually (other than foundation of buildings, culverts, ad drains and trenches of pipe lines and cables) and removing the xcavated stuff to a distance not exceeding 50m and lift upto 1.50m. xcavated surface levelled and neatly dressed , disposed earth to be evelled after breaking of clods and neatly dressed as per specifications.(P.No.5, I.No.2.1)								
Building Surroundings	1	40.00	1.20	0.20	9.60			
Removing Slab Portion	3	10.00	20.00	0.10	60.00			
				Total	69.60	169.56	Cum	11801.38
Basic Rate	157.00							
Area Weightage @ 8%	12.56							
Total	169.56							
2 KSRB 2-2.2 : Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, **in hard soil**, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications.(P.No.5, I.No.2.4)								
For Tree guards	22	2.50	0.60	0.56	18.48			
	22	1.40	0.60	0.56	10.35			
				Total	28.83	305.64	Cum	8811.23
Basic Rate	283.00							
Area Weightage @ 8%	22.64							
Total	305.64							
3 KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202. P No.138. I No.18.47								
Front Passage	1	20.00	2.10	0.30	12.60			
	1	15.00	2.00	0.30	9.00			
Top of the Roof	1	8.20	8.00	0.10	6.56			
Passage Area	1	8.20	1.80	0.10	1.48			
				Total	29.64	843.48	Cum	24997.37
Basic Rate	781.00							
Area Weightage @ 8%	62.48							
Total	843.48							
4 Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.140)								
Considered same Qty vide I.No.1					69.60			
Considered same Qty vide I.No.2					28.83			
Consider same Qty vide Item. No. 3					29.64			
				Total	128.06	110.56	Cum	14159.00
Average Weight of Earth (1.28 Tonne/Km, Basic rate Rs.2.50 Tonne Km.) For 13.30 Kms = (2.50x1.28x13.3)/-	42.56							

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	KSRRB M100-1 Add loading & unloading (P.No 140,I.No 17.1)	68.00								
	Total rate per Cum	110.56								
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15cms thick well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1,4.2 (P.No.12 I.No.4.2)									
	For Tree guards	22	2.50	0.60	0.15	4.95				
		22	1.40	0.60	0.15	2.77				
	Step suround the trees	22	3.20	0.60	0.15	6.34				
		22	2.00	0.60	0.15	3.96				
	Building Surroundings	1	40.00	1.20	0.15	7.20				
	Front Passage	1	20.00	2.10	0.15	6.30				
		1	15.00	2.00	0.15	4.50				
					Total	**36.02**	5449.68	Cum	**196287.00**	
	Basic Rate	5046.00								
	Area Weightage @ 8%	403.68								
	Total	5449.68								
6	KSRB 5.2-2 : Providing and constructing granite/ trap/basalt size stone masonry in foundation in CM 1:6 stone hammed dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials labour, curing etc., complete as per specifications. (P.No.23, I.No. 5.6)									
	For Tree guards	22	2.50	0.60	0.45	14.85				
		22	1.40	0.60	0.45	8.32				
					Total	**23.17**	4521.96	Cum	**104755.73**	
	Basic Rate	4187.00								
	Area Weightage @ 8%	334.96								
	Total	4521.96								
7	KSRB 5.3-3 : Providing and constructing granite/trap/basalt/size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15cms high, bond stones at two m. apart in each course including cost of materials, labhour, curing complete as per specifications.(P.No.23, I.No.5.9)									
	For Tree guards	22	2.50	0.60	0.60	19.80				
		22	1.40	0.60	0.60	11.09				
					Total	**30.89**	5405.40	Cum	**166962.00**	
	Basic Rate	5005.00								
	Area Weightage @ 8%	400.40								
	Total	5405.40								
8	KSRB 15.1.1 : Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar **1:3, 20mm** deep,after raking joints to depth 20mm nicely, liming, including cost of materials, labhour, curing complete as per specifications.(P.No.113,I.No.15.1)									
	Basement	22	2.50		0.60	33.00				
		22	1.40		0.60	18.48				
					Total	**51.48**	104.76	Sqm	**5393.04**	
	Basic Rate	97.00								
	Area Weightage @ 8%	7.76								
	Total	104.76								

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	RB 4-1.6 : Providing and laying in position plain cement concrete of mix :4 with cement @ 240kgs, with 20mm and down size graded granite metal arse aggregates @ 0.878 cum and fine aggregates @ 0.53 cum machine xed, concrete laid in layers not exceeding 15cms thick well compacted, in **undation and plinth and cills**, including cost of all materials, labour, HOM machinery, curing complete as per specifications. (P.No.12 I.No.4.6)								
	Copping on SSM	22	2.50	0.60	0.12	3.96			
		22	1.40	0.60	0.12	2.22			
	Surrounding of tree guards	22	3.20	0.60	0.10	4.22			
		22	2.00	0.60	0.10	2.64			
						13.04	5876.28	Cum	**76636.09**
	Basic Rate	5441.00							
	Area Weightage @ 8%	435.28							
	Total	5876.28							
	KSRB 4-2.8 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granie metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase linels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labhour, HOM of machinery, curing, complete as per specifications. (P.No.14,I.No.4.13)								
	For Plinth Beam	2	8.00	0.23	0.30	1.10			
		3	6.10	0.23	0.30	1.26			
	Lintels	2	8.00	0.20	0.30	0.96			
		3	6.10	0.20	0.30	1.10			
		1	8.00	0.20	0.30	0.48			
	Column	3	0.30	0.30	3.50	0.95			
	Passage Area FF	1	8.00	2.10	0.12	2.02			
		1	8.20	1.80	0.12	1.77			
	Passage Area GF	1	20.00	2.10	0.12	5.04			
		1	15.00	2.00	0.12	3.60			
	Building Surroundings	1	40.00	1.20	0.15	7.20			
	For Roof Beam	3	8.00	0.20	0.45	2.16			
		3	6.10	0.20	0.45	1.65			
		1	8.00	0.20	0.45	0.72			
	Roof Area	1	8.20	8.00	0.15	9.84			
	Floor	1	6.10	8.00	0.12	5.86			
					Total	**45.70**	6650.64	Cum	**303933.58**
	Basic Rate	6158.00							
	Area Weightage @ 8%	492.64							
	Total	6650.64							
11	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal form work for flat surface such as suspended floors, roofs, landings, balconies and like, thickness upto 200mm including cost of materials, labhour complete as per specification.(P.No.15,I.No.4.30)								
	First Floor Area								
	For Plinth Beam	4	8.00		0.30	9.60			
		6	6.10		0.30	10.98			
	Lintels	4	8.00		0.30	0.00			
		6	6.10		0.30	10.98			

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	2	8.00		0.30	4.80			
Column	12	0.30		3.50	12.60			
For Roof Beam	6	8.00		0.45	21.60			
	6	6.10		0.45	16.47			
	2	8.00		0.45	7.20			
Roof Area	1	8.20	8.00		65.60			
				Total	**159.83**	414.72	Sqm	**66284.70**
Basic Rate	384.00							
Area Weightage @ 8%	30.72							
Total	414.72							

KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wiere and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials labour HOM of machinery complete (P.No.17, I No. 4.46.2)

considered 100 kg/cum	45.70	0.10			4.57			
				Total	**4.57**	60534.00	Tonne	**276640.00**
Basic Rate	56050.00							
Area Weightage @ 8%	4484.00							
Total	60534.00							

13 Providing and laying flooring for corridors/lobbies using combination of pre polished 19 mm thick water cut/gang saw Grey Granite, Black Granite, and strips of 50mm wide pre flamed grey granite using pre polished grey granite 19mm thick 76%, Pre polished black granite 19mm thick @ 2% and preflamed 19mm thick grey granite @22% over existing cement concrete bed in CM 1:4 average 20mm thick pointed with white cement/colour pigment etc., complete. - using 19mm thick granite width not less than 1200mm (P.No. 108, I.No. 14.48.1).

For GF Passage	1	20.00	2.10		42.00			
	1	15.00	2.00		30.00			
For FF Passage	1	8.00	2.00		16.00			
	1	6.00	2.00		12.00			
Cladding For GF Passage	1	23.00	0.45		10.35			
Basic Rate	2556.00				**110.35**	2760.48	Sqm	**304618.97**
Area Weightage @ 8%	204.48							
Total	2760.48							

14 Providing RCC loft (atta) 7.5cms thick with cement concrete design mix M20 using clean granite or trap jelly of 20mm and down size with necessary reinforcement at 20cms centre to centre as per design including form work, centring, curing, finishing the exposed faces with cement mortar (1:3) etc., complete (exlusive of cost of steel and fabrication charges).(P.19, I.No. 4.54)

For windows	4	1.50	0.60		3.60			
				Total	**3.60**	486.00	Sqm	**1750.00**
Basic Rate	450.00							
Area Weightage @ 8%	36.00							
Total	486.00							

15 KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (P.No.25, I No. 5.26.1)

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	First Floor								
	Walls	2	8.00		3.20	51.20			
		3	6.10		3.20	58.56			
	Parapet wall	2	8.00		1.00	16.00			
		2	6.10		1.00	12.20			
	For between two columns	2	6.00		1.00	12.00			
					Sqm	**149.96**			
	Deductions								
	Door	2	1.20		2.10	5.04			
	Window	4	1.50		1.20	7.20			
	Lintel	2	8.00		0.30	4.80			
		3	6.10		0.30	5.49			
		1	8.00		0.30	2.40			
					Sqm	**24.93**			
		150	(-)	24.93	Sqm	**125.03**			
					Total	**125.03**	1011.96	Sqm	**126525.36**
	Basic Rate	937.00							
	Area Weightage @ 8%	74.96							
	Total	1011.96							
16	KSRB 15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering,: providing and removing scaffolding, including cost of materials,labhour, curing complete as per specifications.(P.No.114, I.No.15.21)								
	Ceiling First floor	1	8.00	8.20		65.60			
		6	6.00	3.00		108.00			
					Total	**173.60**	208.44	Sqm	**36185.18**
	Basic Rate	193.00							
	Area Weightage @ 8%	15.44							
	Total	208.44							
17	KSRB 15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3 to brick masonry including rounding off corners wherever required smooth rendering,: providing and removing scaffolding, including cost of materials,labhour, curing complete as per specifications.(P.No.113, I.No.15.15)								
	First floor								
	Walls	2	8.00		3.20	51.20			
		3	6.10		3.20	58.56			
					Sqm	**109.76**			
	Deductions								
	Door	2	1.20		2.10	5.04			
	Window	4	1.50		1.20	7.20			
					Sqm	**12.24**			
		109.76	(-)	12.24	Sqm	**97.52**			
					Total	**97.52**	263.52	Sqm	**25698.47**
	Basic Rate	244.00							
	Area Weightage @ 8%	19.52							
	Total	263.52							
18	KSRB 9.4-2 : Providing Honne Wood frames of windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps) but including cost of materials, labour HOM of machineries complete (P.51, I.No. 9.11)								

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	Door	2	7.00	0.10	0.125	0.18			19439.60
					Total	0.18	111083.40	Cum	
	Basic Rate	102855.00							
	Area Weightage @ 8%	8228.40							
	Total	111083.40							
19	KSRB 9-7.2 : Providing and fixing in position fully panelled Honne wood shutters for door,styles and rails of 30mm.thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials,labhour, HOM of machineries complete as per specifications.(excluding cost of fixtures).(P.No.52,I.No.9.21)								
	Door	7	1.20	2.10		17.64			78891.02
					Total	17.64	4472.28	Sqm	
	Basic Rate	4141.00							
	Area Weightage @ 8%	331.28							
	Total	4472.28							
20	SOLID PANEL PVC DOOR SHUTTER : Providing and fixing 30mm factory made rigid foam panelled door shutter made of MS tube of 19 gauge thickness size 19mm x 19mm from styles and 15mm x 15mm for top and bottome rails, covered with heat moulded PVC channel of 5mm thick sheet and 30mm x 50mm wide to form styles and 5mm thick 75mm wide PVC sheets for top rails, lock rails and bottom rails, on either side and 5mm thick 20mm wide PVC sheet as gap inset for top rails and bottom rails panelling of 5mm thick PVC sheet fitted in the MS frame, seales to the styles and rails with 5 x 30mm PVC sheet beading on either side and joined together with solvent cement adhesive etc., complete as per manufactures specifications and directions as per engineer-in-charge fixed to frames with 3 nos of 75mm aluminium hinge.With both side prelam.(P.No.58,I.No.9.85.1).								
		1	0.75	2.10		1.58			6881.00
					Total	1.58	4368.60	Sqm	
	Basic Rate	4045.00							
	Area Weightage @ 8%	323.60							
	Total	4368.60							
21	KSRB 7.9 :Providing and fixing in position MS grill work for windows & ventilators weighing 21 kg/Sqm using MS flats or MS square rods or combination of MS flats & square rods as per design drawing including cutting steel sections welding the same to required pattern with a coat of red lead primer, including cost of materials, fixtures, labhour charges and HOM of machineries complete as per specifications.(P.No.32,I.No.7.9).								
	Windows	4	1.50		1.20	7.20			607.00
					Total	7.20	84.24	Kgs	
	Basic Rate	78.00							
	Area Weightage @ 8%	6.24							
	Total	84.24							

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22	KSRB 7.10 : Providing and fixing in position anodized aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. With 1.2mm thick, bottom section weight 0.695 kg/m; and shutter comprising top and bottom section of size 40mmx18mm,1.25mm thick 0.417kg/m; shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc; and providing and fixing 5.5mm thick plain glass for shutters fitted with rubber beading aluminium sections anodised 12 to 15 microns, including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any rush and coated with greasy for non adhesion of mortor and other sticky materials:(this fixtures, labhour and HOM at machinery complete as per specifications.Using alluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.(P.No.33,I.No.7.10.2)									
	Window	4	1.50		1.20	7.20				
		10	1.50		1.20	18.00				
					Total	**25.20**	4209.84	Sqm	**106087.97**	
	Basic Rate	3898.00								
	Area Weightage @ 8%	311.84								
	Total	4209.84								
23	Providing and fixing M.S.Grill over existing compound wall as per Chief Architect drawing No. 12686, using 16mm x 16mm M.S.Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification.(P.No.42,I.No.7.36)									
	Passage Door at GF	2	2.10		3.10	13.02				
					Total	**13.02**	5641.92	Sqm	**73458.00**	
	Basic Rate	5224.00								
	Area Weightage @ 8%	417.92								
	Total	5641.92								
24	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600x600x10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spaces at required interval and removing stains etc., complete as specifications.(P.No.107,I.No.14.45)									
	Flooring FF	1	8.00	6.10		48.80				
	Additional Rooms	6	5.50	3.00		99.00				
	skirting	1	34.00	0.10		3.40				
		1	68.00	0.10		6.80				
					Total	**158.00**	1200.96	Sqm	**189751.68**	
	Basic Rate	1112.00								
	Area Weightage @ 8%	88.96								

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	Total	1200.96								
	KSRB 15-15.2 : Providing and **applying painting in two coats with plastic emulsion paint** of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labhour complete as per specifications.with primer.(P.No.117,I.No.15.51.2)									
	Ground floor									
	Ceiling First floor	1	8.00	8.20		65.60				
	Walls	4	6.00		3.00	72.00				
		2	8.00		3.00	48.00				
	Additional Rooms	12	6.00		3.00	216.00				
		12	3.00		3.00	108.00				
					Sqm	**509.60**				
	Deductions									
	Door	2	1.20		2.10	5.04				
	Window	4	1.50		1.20	7.20				
					Sqm	**12.24**				
	Out side building near school									
	Walls	1	4.00		3.00	12.00				
		1	5.00		3.00	15.00				
		1	10.00		3.00	30.00				
		1	7.00		3.00	21.00				
		1	5.00		3.00	15.00				
	Ceiling	1	9.00	7		63.00				
						156.00				
		510	(-)	12.24	Sqm	**497.36**				
						156.00				
					Total	**653.36**	97.20	Sqm	**63506.59**	
	Basic Rate	90.00								
	Area Weightage @ 8%	7.20								
	Total	97.20								
26	KSRB 15-16.1 : Providing and finishing external walls in two coats with primer water proof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specification. with primer (P-118, I.No. 15.53.2)									
	For external walls									
	Walls	2	8.00		3.50	56.00				
		2	6.20		3.50	43.40				
	Additional External	1	60.00		3.00	180.00				
					Sqm	**279.40**				
	Deductions									
	Door	2	1.20		2.10	5.04				
	Window	4	1.50		1.20	7.20				
					Sqm	**12.24**				
	Out side building near school									
	Out side Walls including parapet wall	1	4.00		4.80	19.20				
		1	5.00		4.80	24.00				
		1	10.00		4.80	48.00				
		1	7.00		4.80	33.60				
		1	5.00		4.80	24.00				
						148.80				

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		279	(-)	12.24	Sqm	267.16			
						148.80			
					Total	415.96	90.72	Sqm	37735.89
	Basic Rate	84.00							
	Area Weightage @ 8%	6.72							
	Total	90.72							
27	KSRB 15-17.2 : Applying priming coat over new wood surface and / or wood based surface with white lead paint priming including preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting, ready mix paint including cost of materials, labour, complete. (P.No.118, I.No.15.56)								
	Door	2	1.20		2.10	5.04			
					Total	5.04	38.88	Sqm	196.00
	Basic Rate	36.00							
	Area Weightage @ 8%	2.88							
	Total	38.88							
28	KSRB 15-17.6 : Providing and applying painting two coats (excluding priming cost) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour etc., complete as per specifications. (P.No.119, I.No.15.60.1)								
	Door	2	1.20		2.10	5.04			
					Total	5.04	90.72	Sqm	458.00
	Basic Rate	84.00							
	Area Weightage @ 8%	6.72							
	Total	90.72							
29	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound confirming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100 size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound confirming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs.(c) After two days of proper curing,applying a second coat of cement slurry admixed with proprietary water proofing compound. (d) Finishing the surface with 20mm thick jointless cement moratr of mix 1:4 admixed with proprietary water proofing cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labhour complete as specifications.(P.No.66,I.No.10.2).								
	Terrace	1	8.00	8.20		65.60			
	Additional	1	15.00	8.00		120.00			
					Total	185.60	976.32	Sqm	181205.00
	Basic Rate	904.00							
	Area Weightage @ 8%	72.32							
	Total	976.32							

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30	KSRB 8.6-8 : Providing and fixing on wall surface 4.0kg/sq.cm H.D.P.E rain down water pipes 110mm outer dia approved make and brand with necessary specials like shoes, bends, and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labhour, complete as per specifications.(P.No.47, I.No.8.19)								
		1	30.00			30.00			
					Total	30.00	613.44	m	18404.00
	Basic Rate	568.00							
	Area Weightage @ 8%	45.44							
	Total	613.44							
31	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labhour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity).(P.No.94.I.No.13.78).								
		2				2.00			
					Total	2.00	9144.36	Nos	18288.72
	Basic Rate	8467.00							
	Area Weightage @ 8%	677.36							
	Total	9144.36							
32	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P.brass pillar taps with C.I./ M.S brackets, 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labhour complete as per specifications.(P.No.80,I.No.12.23)								
		2				2.00			
					Total	2.00	4196.88	Each	8394.00
	Basic Rate	3886.00							
	Area Weightage @ 8%	310.88							
	Total	4196.88							
33	KSRB 11-15.3 : Providing and fixing 453x357mm rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labhour complete as per specifications.(P.No.82,I.No.12.41)								
		4				4.00			
					Total	4.00	1274.40	Unit	5097.60
	Basic Rate	1180.00							
	Area Weightage @ 8%	94.40							
	Total	1274.40							
34	KSRB 11-17-1 : Providing and fixing C.P. brass towel rail 600mm length, 20mm dia with C.P.brackets, fixed to wooden cleats with C.P.brass screws including cost of materials,labhour complete as per specifications.(P.No.83,I.No.12.46).								
		2				2.00			
					Total	2.00	766.80	Unit	1533.60
	Basic Rate	710.00							
	Area Weightage @ 8%	56.80							
	Total	766.80							
35	KSRB 13-9.1 : Providing and fixing to wall, ceiling and floor **high density polyethlene pipes 6.00 kgf/sq.cm** working pressure 90mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labhour charges, HOM of equipments and testing complete as per specifications. (P.No.94,I.No.13.73.4)								

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		1	10.00			10.00			
					Total	**10.00**	511.92	m	**5119.20**
	Basic Rate	474.00							
	Area Weightage @ 8%	37.92							
	Total	511.92							
36	*Providing and fixing* ***Chorinated Poly Venyl Chloride (CPVC) 20mm pipes*** *conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, including fixing the pipe and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete(concealed work including cutting chases and good the walls etc, .(P.No.96,I.No.13.86.2)*								
		1	30.00			30.00			
					Total	**30.00**	226.80	m	**6804.00**
	Basic Rate	210.00							
	Area Weightage @ 8%	16.80							
	Total	226.80							
37	*Providing and fixing* ***Chorinated Poly Venyl Chloride (CPVC) 25mm pipes*** *conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, including fixing the pipe and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete(concealed work including cutting chases and good the walls etc, .(P.No.96,I.No.13.86.3)*								
		1	30.00			30.00			
					Total	**30.00**	270.00	m	**8100.00**
	Basic Rate	250.00							
	Area Weightage @ 8%	20.00							
	Total	270.00							
38	*KSRB 13-6.2-2 : Providing and fixing in position brass stock cock of approved quality 20mm nominal bore including cost of all materials, labhour and HOM of equipements with all leads complete as per specifications.(P.No.91, I.No.13.27).*								
		6				6.00			
					Total	**6.00**	172.80	Each	**1037.00**
	Basic Rate	160.00							
	Area Weightage @ 8%	12.80							
	Total	172.80							

A.E

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39	Providing, fabricating, assembling and fixing in position anodized aluminium partitions using sections in combination of plain, single grove and double grove as per requirements for the frames of overall size 101.6mmx44.45mm, 3.18mm.thick having section weight, plain sections 2.40kg/m single grove section 2.541kg/m.and double grove section 2.683kg/m and bottom member 114.3mmx44.45mm 3.18mm thick weight 2.646 kg/m; aluminium louvers of size 77.6mmx27.6mm 1.7mm. thick section weight 0.483kg/m; bottom portions provided wuth 12 mm. thick prelaminated sheet both side of approved colour lamination exterior grade; aluminium sections of mat finish or glossy finish using section, spacing of vertical memeber shall not exceed 0.6 m. c to c; sections are cut to the required lengths, joints mitered and conres grinded subdiving frames tennoned and rivetted to the frames, the assembled frame should be stiffened with corner angles stripped and fixed with screws, rawl plugs and teak wood gutties to R.C.C columns or masonry on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistling and making good with cement mortar to match the surface, providing and fixing bottom panel filled with the materials to a height of 0.9m.from floor level; and 5.5mm. thick palin glass for middle portion viz., 0.9m.to 2.13m. and top panel with lower sections, the glass nd panels fitted with glazing clips of 19mmx17.3mm. with thickness of 0.9mm.weight 0.124kg/m; aluminium sections anodised 12 to 15 microns, sections pre-treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherence of mortars or any other sticky materials; vertical members embedded in the flooring by making suitable size holes and fixing with cement mortar, with necessary opening for fixing of doors of standard size (excluding cost of door opening) All the frame should be throughly cleaned free from rust, scale or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Page No-37 I N-7.17.1								
	Alluminium Partion Wall	2	4.00	3.00		24.00			
	Deduction for Door	-1	0.90	2.10		-1.89			
						22.11	6718.68	Sqm	**148550.01**
	Basic Rate	6221.00							
	Area Weightage @ 8%	497.68							
	Total	6718.68							

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	Providing, fabricating, assembling and fixing in position anodized aluminium partitions using sections in combination of plain, single grove and double grove as per requirements for the frames of overall size 101.6mmx44.45mm, 3.18mm thick having section weight, plain sections 2.40kg/m single grove section 2.541kg/m and double grove section 2.683kg/m and bottom member 114.3mmx44.45mm 3.18mm thick weight 2.646 kg/m; aluminium louvers of size 77.6mmx27.6mm 1.7mm. thick section weight 0.483kg/m; bottom portions provided wuth 12 mm. thick prelaminated sheet both side of approved colour lamination exterior grade; aluminium sections of mat finish or glossy finish using section, spacing of vertical memeber shall not exceed 0.6 m. c to c; sections are cut to the required lengths, joints mitered and conres grinded subdiving frames tennoned and rivetted to the frames, the assembled frame should be stiffened with corner angles stripped and fixed with screws, rawl plugs and teak wood gutties to R.C.C columns or masonry on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistling and making good with cement mortar to match the surface, providing and fixing bottom panel filled with the materials to a height of 0.9m from floor level; and 5.5mm. thick palin glass for middle portion viz., 0.9m to 2.13m. and top panel with lower sections, the glass nd panels fitted with glazing clips of 19mmx17.3mm. with thickness of 0.9mm.weight 0.124kg/m; aluminium sections anodised 12 to 15 microns, sections pre-treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherence of mortars or any other sticky materials; vertical members embedded in the flooring by making suitable size holes and fixing with cement mortar, with necessary opening for fixing of doors of standard size (excluding cost of door opening) All the frame should be throughly cleaned free from rust, scale or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Do Using Aluminium Section Anodized to 12-15 Microns . Page No-35 I N-7.14.1 .								
	Alluminium Door	1	0.90	2.10		1.89			
						1.89	5030.64	Sqm	9507.91
	Basic Rate	4658.00							
	Area Weightage @ 8%	372.64							
	Total	5030.64							
40A	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33).								
		3	10.00	20.00		600.00			
	Deduct 45% for Missing and damages					-270.00			
					Total	330.00	82.08	Sqm	27087.00
	Basic Rate	76.00							
	Area Weightage @ 8%	6.08							
	Total	82.08							
40B	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. (P.No.25, I.No.5.31.2).								
	Consider Missing and damages qty in item 40A					270.00			
					Total	270.00	841.32	Sqm	227157.00
	Basic Rate	779.00							
	Area Weightage @ 8%	62.32							
	Total	841.32							
	ELECTRICALS								
41	Open conduit System. Supplying heavy gauge PVC conduit pee ... dia confirming to S 2509 with suitable size bends. plugs in case of RCC Ceding and RCC wall stone structure or rawf plugs in case of brick walls and cement plastering damaged Portion using heavy gauge saddles at an interval of 700mm using WF screws) 19/20 mm dia 2mm thick. (Electrical SR 2014-15, P. No. 02 It. No. 1.1).								
	A) 19/20mm dia 2mm thick	1	230.00			230.00	54.00	Mtr	12,420.00
	B) 25MM DIA 2MM thick	1	100.00			100.00	70.00	Mtr	7,000.00

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42	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting. necessary masonry patch work complete . (Pg. No. 03 It. No. 1.6.1, 1.6.3, 1.6.4) Electrical SR 2014-15.								
	a) 12"x12"x3" (300x300 76mm)	30				30.00	116.00	each	3,480.00
	b) 10"x7"x3" (1254x178x 76mm)	30				30.00	87.00	each	2,610.00
	c) 8"x6"x3" (203x152x76mm)	30				30.00	73.00	each	2,190.00
43	Wring for lighting/power circuit using one of PVC insulated 100v grade. muftis and Copper conductor single core cable in open or consealed system of wing I Group A Matenals. (Pg. No. 06, It. No. 2.5.2, 2.5.3, 2.5.4). Electrical SR 2014-15.								
	a) 1.5 sqmm	1	400.00			400.00	18.60	mtr	7,440.00
	b) 2.5 sqmm	1	300.00			300.00	29.20	mtr	8,760.00
	c) 4 sqmm	1	150.00			150.00	42.10	mtr	6,315.00
44	Point wiring using copper wire with switch Supplying and wine.; adopting loop system in existing PVC Conduit/casing coping using Copper PVC rivaled multi strand 2x1.5Somm copper wire with a 6Amps flush type SP commit switch shall be fixed on the existing plastic sheet /gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete lot each outlet. I. Point wiring using class A materials. a) Short point upto 31,1tr from tapping point to out let via switch. (Pg. No. 05 It. No. 2.1.1). Electrical SR 2014-15.								
		90				90.00	174.00	each	15,660.00
45	Supplying 6A flush/projected type socket and a 6 amps flush protected type SP switch either surface/flush mounting in a existing gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. b) 6Amps 3/5 way. (Pg. No. 15 It. No. 3.1.2). Electrical SR 2014-15.								
		50				50.00	150.00	each	7,500.00
46	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches. regulators etc , and fixing on existing wood or metal box using N.F.screws. (Pg. No. 17 It. No. 3.10). Electrical SR 2014-15.								
		40000				40000.00	0.22	Sqcm	8,800.00
47	Supplying, fixing. wiring. earth electrode for grounding conduits. I C. cutouts and other r requirements on the meter board using 40rnm du 1.90 thick GL pipe 25 rob long buried in a pit....The pa should be filled with equal proportion of salt and charcoal 150rnm alround the pipe to complete depth. The connection from the pipe to the conduit etc. is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts. washers and checkouts etc. the pipe shall have 16 through holes of 122mm dia. (Pg. No. 55 It. No. 7.1). Electrical SR 2014-15.								
		2				2.00	2,727.00	each	5,454.00
48	Supplying box type suitable for 28W T5 single / twin Lamp 8 suspension mounted luminaire 8 optical reflector. Prewired with HF electronic Ballast. push fit type tamp holders holders 8 main connectors. Channel Cover shag be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 1x4' – 28 watts. (Pg. No. 20 It. No. 4.7.1). Electrical SR 2014-15.								
		55				55.00	990.00	each	54,450.00
49	Fixing all types and as capacities fluorescent/ false ceiling/ spot light/ CFL fitting indoor on the wan/ ceiling/ rafters/ girders using 23/ 0.0076 twin twisted PVC insulated wires, required nos of round blocks and camps. A) On wall/ ceiling/ rafter/ girders. (Pg. No. 108 It. No. 17.7.1). Electrical SR 2014-15.								
		55				55.00	98.00	each	5,390.00

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50	Supplying capacitor type ceiling fan complete with down rod lades. shackle. canopies etc.. for operation on 230 volts, 50 cycles Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system I 48 Sweep (1200mm).a) Regular model (Khaitan. Crompton Cleaves. Orient. Ploar, Bajaj. Usha Havells Almonard). (Pg. No. 78 It. No. 9.3.1.1). Electrical SR 2014-15.								
		20				**20.00**	2,376.00	each	**47,520.00**
51	Fixing a ceiling /wall mounting fan of all capacities and as types to the existing S hook together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23 / 0 0076 inch PVC insulated twin twisted copper wire and wiring completely. (Pg. No. 109 It. No. 17.8). Electrical SR 2014-15.								
		20				**20.00**	139.00	each	**2,780.00**
52	Supplying and fixing of Procelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washers etc., complete a)63 Amps. (Pg. No. 45 It. No. 6.7.3). Electrical SR 2014-15.								
		10				**10.00**	234.00	each	**2,340.00**
53	Supplying of 1.1 KV LT UG cable having aluminium conductor PVC extruded inner sheathed,galvanized, steel strip (except 2CX10Sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. a) 4 core 16 sqmm. (Pg No. 55 It. No. 7.4.4). Electrical SR 2014-15.								
		300				**300.00**	140.40	mtr	**42,120.00**
54	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe on wall / on pole as required. In existing trench / duct. a) 6 sqm to 16 sqmm. (Pg No. 61 It. No. 7.8.1). Electrical SR 2014-15.								
		250				**250.00**	10.80	mtr	**2,700.00**
55	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (Pg No. 61 It. No 7.9.5). Electrical SR 2014-15.								
	b) C.C. cutting	50				**50.00**	212.00	each	**10,600.00**
56	Supplying and fixing miniature circuit breakes on existing C8 distribution boards using necessary ruing materials and wiring complete as -1-d-red ,2. Group 'A'. (Pg. No. 47 It. No. 6.16.2, 6.16.4). Electrical SR 2014-15.								
	b) 40-63Amps SP	15				**15.00**	677.00	each	**10,155.00**
	d) 40-63Amps DP, Group A	20				**20.00**	1,093.00	each	**21,860.00**
57	Supplying and flung of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary cclamping arrangements for UG cable of 1.1 KV class. (Pg. No. 62 It. No. 7.12.1). Electrical SR 2014-15.								
	a) 40mm	40				**40.00**	345.00	mtr	**13,800.00**
58	Supplying & fixing L.T.cast von pot heads suitable for 1 I KV class UG cable filled will necessary bitumen/insulating compound complete with manna, damps. bolts, nuts and washers ect. (Pg. No. 62 It. No. 7.13.2). Electrical SR 2014-15.								
	a) 16 sqmm	4				**4.00**	280.00	each	**1,120.00**
59	Supply and fixing of backlite D.P/Socket/switch with /without neon indicator over existing wood board or flush mounting in plastic plates/ nitches 1. Using group 'A' material. (Pg. No. 15 It. No. 3.3.4). Electrical SR 2014-15.								
	a)16Arnps Combined switch and socket with indication								
		20				**20.00**	194.00	each	**3,880.00**

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60	Fabricating supplying and mounting MS box made out 5MM readable as floor / wall mounting fully weather proof with provision for better heat dissipation provided with hinged front cover equipped with tamper proof locking arrangements with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished 4+ approved colour enamelled metal pain etc. complete (Pg No. 49 lt. No. 6.40.2). Electrical SR 2014-15									
	a) 16 SWG	4000					40000.00	0.33	each	13,200.00
61	Supplying and fixing regular MCB distribution boards on wall/woodboard / flush mounting using reputed caimps, bead, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting etc. complete. II Double Door Group A (Pg No. 47 lt. No. 6.17.10). Electrical SR 2014-15									
	a) 12Way TP &N	10					10.00	5,138.00	each	51,380.00
62	Supplying exhaust fan of 1440 RPM of 300mm (12") size was bracket blades complete for light duty suitable to operate on 230V 50Hz. AC. (Pg. No. 78 lt. No. 9.1). Electrical SR 2014-15									
		2					2.00	1,700.00	each	3,400.00
63	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5 amps. ceiling rose with sufficient length of 23/ 0.0076 inch PVC insulated twin core wire. (Pg. No. 109 lt. No. 17.12). Electrical SR 2014-15									
		2					2.00	412.00	each	824.00
64	Supplying and ruing cast Aluminium round or oblong type but head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp. (Pg. No. 20 lt. No. 4.4). Electrical SR 2014-15.									
		2					2.00	952.00	each	1,904.00
65	Supply of recess mounted rolling type LED square or round Down light 12 watts with 4/6W GU 10 LED Lamp Rib Fabricated from Die cast aluminum with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminum die cast eye ball & LED Lamp position retained by circular wire spring 5 years Warranty against any manufacturing defect working under standard electrical condition. (Pg. No. 25 lt. No. 4.31). Electrical SR 2014-15									
		40					40.00	1,868.00	each	74,720.00
									SUB TOTAL RS	3446508.89
66	Add KRIDL Charges @ 4%									137860.36
67	~~GST @12%~~									413581.07
67	Miscellaneous and unforeseen charges	L.S								2049.68
									GRAND TOTAL AMOUNT RS	4000000.00

(Rupees ~~Fourty~~ Lakhs only)

TECHNICAL SANCTION

Rs: 4000000/- (Rs. fourty lakhs only)

is accorded

under the head: P - 3085

Certificate: P.N: 44-45

Registered as CE (R.R.N) No: 173/19-20 subject to conditions contained in enclosed memo No: 173/19-20 Date: 9/8/19

CE (R.R.N.)

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on BCSR of 2016-17
5. This work is not split up.

Assistant Engineer
Ward No. 17

Executive Engineer
Rajarajeshwari Nagara Division
BBMP

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